JOURNAL OF
Inorganic Biochemistry

Volume 59, Number 1, July 1995

Contents

L. L. COSTANZO, G. DE GUIDI, S. GIUFFRIDA, S. SORTINO, and G. CONDORELLI (Catania, Italy)
Antioxidant Effect of Inorganic Ions on UVC and UVB Induced Lipid Peroxidation 1

S. PEAD, E. DURRANT, B. WEBB, C. LARSEN, D. HEATON, J. JOHNSON, and G. D. WATT (Provo, UT)
Metal Ion Binding to Apo, Holo, and Reconstituted Horse Spleen Ferritin 15

HONG-YE SUN, (Beijing, China) HUAKUAN LIN, (Tianjin, China) YAN CAO, RONGCHANG LI, KUI WANG, (Beijing, China) and RONGTI CHEN (Tianjin, China)
Tb^{3+} Binding to Human Erythrocyte Spectrin Resulting in Conformation Change and Aggregation 29

DEREK BINGHAM and MILOSLAV DOBROTA (Surrey, U.K.)
Binding of Lanthanides to Cell Membranes in the Presence of Ligands 39

J. J. MARTIN-POLO, (Guanajuato, Mexico) W. L. DRIESSEN, (Leiden, Netherlands) F. CERVANTES-LEE, (El Paso, Texas) and G. MENDOZA-DÍAZ (Leiden, Netherlands)
Molecular Structure and Spectroscopy of Aqua-(1,10-Phenanthroline) (L-Methioninato-N,O) Copper(II) Nitrate Monohydrate 53

MONTSERRAT CALAF, AMPARO CAUBET, VIRTUDES MORENO, MERCÉ FONT-BARDIA, and XAVIER SOLANS (Barcelona, Spain)
Alkyl Ester Derivatives of Methionine and Histidine With Pd(II) and Pt(II) 63

Volume 59, Numbers 2/3, 1995

Contents 7th EBIC Conference Abstracts Issue

PL PLENARY LECTURES
A TRANSPORT, STORAGE AND ASSEMBLY OF METALS
B METALS AND NUCLEIC ACIDS
C METALS IN MEDICINE
D GENE REGULATION
E ELECTRON AND ENERGY TRANSFER
F GROUP TRANSFER
G SPECTROSCOPY, SPECIFIC APPLICATIONS
H NON-HEME IRON PROTEINS
I HEME IRON PROTEINS AND PORPHYRIN ANALOGS
J IRON-SULFUR PROTEINS
K VANADIUM
L MANGANESE
M NICKEL
N COPPER
O MOLYBDENUM

Volume 59, Number 4, September 1995

Contents

PATRICIA CLARK AND GUNTHER L. EICHHORN (Baltimore, MD)
A Simple Probe for DNA Accessibility in Chromatin **765**

RAFFAELE P. BONOMO, ANTONIO DE FLORA, ENRICO RIZZARELLI, ANNA M. SANTORO, GIOVANNI TABBÍ, and MICHELA TONETTI (Catania, Italy)
Copper(II) Complexes Encapsulated in Human Red Blood Cells **773**

SARAH L. HEATH, PETER A. JORDAN, IAN D. JOHNSON, GEOFFREY R. MOORE, ANNIE K. POWELL (Norwich, U.K.), and MADELEINE HELLIWELL (Manchester, U.K.)
Comparative X-ray and ^{27}Al NMR Spectroscopic Studies of the Speciation of Aluminum in Aqueous Systems: Al(III) Complexes of $N(CH_2CO_2H)_2(CH_2CH_2OH)$ **785**

FERNANDO J. GARCÍA BARROS, M. ANGELES DÍAZ DÍEZ, and CRISTÓBAL VALENZUELA CALAHORRO (Badajoz, Spain)
Complexing of 6-Chloropurine with some Transition Metal Ions in Aqueous Solution **795**

M. RUIZ, L. PERELLÓ, R. ORTIZ (Valencia, Spain), A. CASTIÑEIRAS (Santiago de Compostela, Spain), C. MAICHLE-MÖSSMER (Tübingen, Germany), and E. CANTÓN (Valencia, Spain)
Synthesis, Characterization, and Crystal Structure of $[Cu(cinoxacinate)_2]\cdot 2H_2O$ Complex: A Square-Planar CuO_4 Chromophore. Antibacterial Studies **801**

ROSA PIA FERRARI and ENZO LAURENTI (Turin, Italy)
ESR Spin-Stabilization Evidence for α-Methyldopa and Dopamethylester o-Semiquinones Obtained by Peroxidasic Oxidation: Structural Characterization and Mechanistic Studies **811**

GURUNATH MUKHERJEE and TAPAS GHOSH (Calcutta, India)
Metal Ion Interaction with Penicillins—Part VII: Mixed-Ligand Complex Formation of Cobalt(II), Nickel(II), Copper(II), and Zinc(II) with Ampicillin and Nucleic Bases **827**

Author Index **835**

Subject Index **837**